	Application No.	Applicant(s)
Notice of Allowability	09/671,856	KOMIYA ET AL.
	Examiner	Art Unit
	Kimnhung Nguyen	2677
The MAILING DATE of this communication apperation apperation apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the (OR REMAINS) CLOSED in this a or other appropriate communication is subject and MPEP 1308.	pplication. If not included on will be mailed in due course. THIS
•	t nieu on arayos.	
2. The allowed claim(s) is/are <u>1-6</u> .	•	
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		
2. Certified copies of the priority documents have	been received in Application No.	
Copies of the certified copies of the priority do	cuments have been received in this	s national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply IENT of this application.	y complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINEI es reason(s) why the oath or declar	R'S AMENDMENT or NOTICE OF ration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		0-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		•
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		
identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the draw he header according to 37 CFR 1.121	ings in the front (not the back) of (d).
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I 	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the CAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Fl Nation of Informati	Debut Application (DTO 450)
Notice of References Cited (P10-692) Notice of Draftperson's Patent Drawing Review (PT0-948)		Patent Application (PTO-152)
	6. ☐ Interview Summary Paper No./Mail Da	ate
 Information Disclosure Statements (PTO-1449 or PTO/SB/0) Paper No./Mail Date 8/9/05 	8), 7. 🛛 Examiner's Amend	Iment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Statem	ent of Reasons for Allowance
o. Diological Material	9. Other	
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DETAILED ACTION

Examiner's Amendment

Authorization for this Examiner's Amendment was given in a telephone interview with Mr. Joel T. Charton on 9/6/05.

Amendments To The Claims 1, 2 and 4:

1. An active matrix type electroluminescence display device comprising:

a plurality of display pixels arranged in a matrix of rows and columns, each of said display pixels including an electroluminescence element to which one end of a capacitor for maintaining a voltage corresponding to a display signal is connected via a driver transistor; and

a plurality of capacitor lines extending in a row direction and connected to and shared by the other end of said capacitors of said display pixels; wherein

a constant voltage is supplied from both ends of said capacitor lines;

said capacitor is connected to a gate of the driver transistor, which drives the electroluminescence element.

2. An active matrix type electroluminescent display device comprising:

a plurality of display pixels, each including an electroluminescent element, arranged in a matrix of rows and columns, a first thin film transistor in which a display signal is applied to the drain and which is switched on and off in response to a select signal, a capacitor having one end connected to the source of the first thin film transistor and for maintaining a voltage

Art Unit: 2677

corresponding to said display signal, and a second thin film transistor for driving said electroluminescence element based on said display signal;

a plurality of first capacitor lines, each extending in a row direction and connected to and shared by the other end of capacitors of said display pixels;

a second capacitor line connected to first ends of said plurality of first capacitor lines;

a third capacitor line connected to second ends of said plurality of first capacitor lines;

wherein

said second and third capacitor lines are connected to a common constant voltage source, and said constant voltage is supplied to said first ends and said second ends of said plurality of first capacitor lines through said second and third capacitor lines.

4. An active matrix type electroluminescence display device comprising:

a plurality of display pixels, each including an electroluminescence element, arranged in a matrix of rows and columns, a first thin film transistor in which a display signal is applied to the drain and which is switched on and off in response to a select signal, a capacitor having one end connected to the source of the first thin film transistor and for maintaining a voltage corresponding to said display signal, and a second thin film transistor for driving said electroluminescence element based on said display signal;

a plurality of first capacitor lines, each extending in a row direction and connected to and shared by the other end of capacitors of said display pixels;

a second capacitor line connected to first ends of said plurality of first capacitor lines;

Application/Control Number: 09/671,856

Art Unit: 2677

a third capacitor line connected to second ends of said plurality of first capacitor lines; and

wherein a constant voltage is supplied to said first ends and second ends or said plurality of first capacitor lines through said second and third capacitor lines.

Reasons For Allowance

The following is an examiner's statement of reasons for allowance: The present invention is directed to an active matrix type electroluminescence display device comprising a plurality pixels, each including an electroluminescence element arranged in a matrix of rows and column, a first thin film transistor in which a display signal is applied to the drain and which is switched on and off in response to select signal, a capacitance having one end connected to the source of the first thin film transistor and for maintaining a voltage corresponding to the display signal and a second thin film transistor for driving the electroluminescence element based on the display signal; and a capacitance lines extending each row and connected to and shared by the other end of the capacitance of the display pixels; and a second capacitance line connected to first ends of said plurality of first capacitance lines. The closest prior art, Sato (5,235,253) discloses a similar system an active matrix type electroluminescence, he also discloses a first thin film transistor in which a display signal is applied to the drain and which is switched on and off in response to select signal, a capacitance having one end connected to the source of the first thin film transistor and for maintaining a voltage corresponding to the display signal and a second thin film transistor for driving the electroluminescence element based on the display signal; and a capacitance lines extending each row and connected to and shared by the other end of the

Art Unit: 2677

capacitance of the display pixels; and a second capacitance line connected to first ends of the plurality of first capacitor lines. However, he fail to teach a constant voltage is applied from both ends of the capacitor lines, the capacitor is connected to a gate of the driver transistor, which drives the electroluminescent element as claim 1; or a second capacitor line connected to first ends of said plurality of first capacitor lines, wherein the second and third capacitor lines are connected to a common constant voltage source, and the constant voltage is supplied to the first ends and said second ends of the plurality of first capacitor lines through the second and third capacitor lines as claim 2; or a third capacitor line connected to second ends of the plurality of first capacitor lines; and wherein a constant voltage is supplied to the first ends and second ends or the plurality of first capacitor lines through the second and third capacitor lines as claim 4.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number is (571) 272-7698. The examiner can normally be reached on MON-FRI, FROM 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/671,856

Art Unit: 2677

Page 6

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kimnhung Nguyen September 10, 2005

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